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T S13/5/ALL

13/5/1 (Item 1 from file: 340)
DIALOG(R)File 340:CLAIMS(R)/US Patent
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10193957 2002-0137662 2002-0035621

C/COMPOSITIONS AND METHODS FOR NEGATIVE REGULATION OF TGF-BETA PATHWAYS

Document Type: Utility

Document Type: Patent Application-First Publication

Inventors: Laughon Allen S (US)

Assignee: Unassigned Or Assigned To Individual

Assignee Code: 68000

Publication Application

Kind Number Date Number Date

Al US 20020137662 20020926 US 2001810385 20010316

Priority Applic: US 2001810385 20010316

Abstract: Methods for screening for compounds that are negative regulators of TGF- beta -regulated gene expression in mammalian cells are provided, including compositions identified therefrom.

Exemplary Claim: D R A W I N G

1. A method for identifying compounds that directly interact with a Smadprotein or a Smad protein co-repressor to prevent protein-protein or protein-DNA interactions required for repression of transcriptioninduced by TGF- beta, activin or bone morphogenetic protein signaling in cells comprising: (a) determining a first level of transcriptiondetected in cells in the presence of a Smad protein and a CtBP protein before addition of a test compound; (b) contacting said cells with the test compound; and (c) determining a second level of transcriptiondetected in cells in the presence of a Smad protein and a CtBP protein after addition of the test compound, wherein a decrease in the level of repression oftranscriptioninduced by the presence of theSmadprotein and the CtBP protein is indicative of the ability of the test compound to interfere withtranscriptional repression and to prevent repression oftranscriptionthat is produced by a TGF- beta, activin, or bone morphogenetic protein signal in cells.

Class: 514001000 Class Cross Ref: 435007200 IPC: A61K-031/00 (Edition 07) IPC Cross Ref: G01N-033/53; G01N-033/567

13/5/2 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00942700 \*\*Image available\*\*
COMPOSITIONS AND METHODS FOR NEGATIVE REGULATION OF TGF-BETA PATHWAYS
COMPOSITIONS ET PROCEDES POUR LA REGULATION NEGATIVE DES VOIES DE FACTEUR
DE CROISSANCE TRANSFORMANT BETA

Patent Applicant/Assignee:

WISCONSIN ALUMNI RESEARCH FOUNDATION, 614 Walnut Street, Madison, WI 53705, US, US (Residence), US (Nationality)

Inventor(s):

LAUGHON Allen S, 717 Ottawa Trail, Madison, WI 53711, US,

Legal Representative:

LICATA Jane Massey (et al) (agent), Licata & Tyrrell P.C., 66 E. Main

```
Street, Marlton, NJ 08053, US,
Patent and Priority Information (Country, Number, Date):
                        WO 200276466 A1 20021003 (WO 0276466)
  Patent:
                                                (PCT/WO US0208133)
  Application:
                        WO 2002US8133 20020315
  Priority Application: US 2001810385 20010316
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
  CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP
  KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO
  RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: A61K-031/70
International Patent Class: A01N-043/04; C07K-014/00; C12Q-001/68
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
```

### English Abstract

Fulltext Word Count: 4842

Methods for screening for compounds that are negative regulators of TGF-beta-regulated gene expression in mammalian cells are provided, including compositions identified therefrom.

#### French Abstract

La presente invention concerne des procedes de criblage de composes qui sont des regulateurs negatifs de l'expression genetique regulee de TGF-beta dans des cellules mammaliennes, ainsi que des compositions qui sont identifiees a partir de ceux-ci. FIG. 1: A beta-GALACTOSIDASE B 5 NANOGRAMMES DE MAD/20 NANOGRAMMES DE MEDEA C 0 NANOGRAMMES DE MEDEA, 0 NANOGRAMMES DE MAD D NANOGRAMMES DE LA PROTEINE dCtB

Legal Status (Type, Date, Text)
Publication 20021003 A1 With international search report.
Publication 20021003 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Examination 20030109 Request for preliminary examination prior to end of 19th month from priority date

13/5/3 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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#### 00768498

NUCLEIC ACID BINDING OF MULTI-ZINC FINGER TRANSCRIPTION FACTORS
LIAISON D'ACIDE NUCLEIQUE A DES FACTEURS DE TRANSCRIPTION DE DOIGT
MULTI-ZINC

Patent Applicant/Assignee:

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REMACLE Jacques, Avenue des Lilas 7, B-4280 Hannut, BE, BE (Residence),

REMACLE Jacques, Avenue des Lilas 7, B-4280 Hannut, BE, BE (Residence BE (Nationality), (Designated only for: US)

Legal Representative:

VLAAMS INTERUNIVERSITAIR INSTITUUT VOOR BIOTECHNOLOGIE VZW (commercial

rep.), Rijvisschestraat 120, B-9052 Zwijnaarde, BE, Patent and Priority Information (Country, Number, Date):

WO 200100864 A2-A3 20010104 (WO 0100864) WO 2000EP5582 20000609 (PCT/WO EP0005582)

Application:

Priority Application: EP 99202068 19990625

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE

DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK

SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: C12Q-001/00

Publication Language: English

Filing Language: English

Fulltext Availability: Detailed Description

Claims

Fulltext Word Count: 23477

# English Abstract

The invention concerns a method of identifying transcription factors comprising providing cells with a nucleic acid sequence at least comprising a sequence CACCT as bait for the screening of a library encoding potential transcription factors and performing a specificity test to isolate said factors. Preferably the bait comprises twice the CACCT sequence, more particularly the bait comprises one of the sequences CACCT-N-CACCT, CACCT-N-AGGTG, AGGTG-N-CACCT or AGGTG-N-AGGTG wherein N is a spacer sequence. The identifiedtranscriptionfactor(s) using the method according to the invention comprises separated clusters of zinc fingers such as for example a two-handed zinc fingertranscription factor. The present invention further discloses that at least one such zinc fingertranscription factor, denominated as SIP1 , induces tumor metastasis by downregulation of the expression of E-cadherin. Compounds interfering withSIP1activity can thus be used to prevent tumor invasion and metastasis.

## French Abstract

L'invention concerne un procede d'identification de facteurs de transcriptionpermettant d'apporter a des cellules une sequence d'acide. nucleique comprenant au moins une sequence CACCT comme appat dans le criblage d'une bibliotheque codant les facteurs detranscription potentiels et executant un test specifique pour eliminer ces facteurs. L'appat comprend, de preference, deux sequence CACCT, plus particulierement, l'appat comprend une des sequences CACCT-N-CACCT, CACCT-N-AGGTG, AGGTG-N-CACCT ou AGGTG-N-AGGTG dans lesquelles N represente une sequence d'espacement. Le(s) facteur(s) detranscription identifie(s) utilisant le procede de l'invention comprend (comprennent) des groupes separes de doigts de zinc tels que par exemple un facteur de transcriptionde doigt de zinc a deux mains. En outre, la presente invention indique qu'au moins un facteur detranscriptionde doigt de zinc, appeleSIP1 , provoque des metastases tumorales par regulation a la baisse de l'expression de E-cadherine. Les composes interferants avec l'activiteSIP1peuvent ainsi etre utilises pour empecher l'invasion de tumeurs et la metastase.

Legal Status (Type, Date, Text)

Publication 20010104 A2 Without international search report and to be

republished upon receipt of that report.

20010308 Request for preliminary examination prior to end of Examination

19th month from priority date

20011129 Late publication of international search report Search Rpt Republication 20011129 A3 With international search report.

T S30/5/ALL

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(Item 1 from file: 5)
 30/5/1
DIALOG(R) File
               5:Biosis Previews(R)
(c) 2003 BIOSIS. All rts. reserv.
           BIOSIS NO.: 200100301470
The corepressorCTBP is involved in Evi-1 mediated repression of TGF-beta
signaling.
AUTHOR: Izutsu Koji(a); Kurokawa Mineo(a); Imai Yoichi(a); Mitani Kinuko(a)
  : Hirai Hisamaru(a)
AUTHOR ADDRESS: (a)Department of Hematology and Oncology, Graduate School
  of Medicine, University of Tokyo, Tokyo**Japan
JOURNAL: Blood 96 (11 Part 1):p90a November 16, 2000
MEDIUM: print
CONFERENCE/MEETING: 42nd Annual Meeting of the American Society of
Hematology San Francisco, California, USA December 01-05, 2000
SPONSOR: American Society of Hematology
ISSN: 0006-4971
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English
```

ABSTRACT: Evi-1 is a zinc finger nuclear protein whose inappropriate expression leads to leukemic transformation of hematopoietic cells in mice and humans. Evi-1 is shown to be highly expressed in human myeloid leukemias and myelodysplastic syndromes by chromosomal rearrangements involving 3q26. It is also aberrantly expressed as a fusion transcript with AML1 (AML1/Evi-1), which leads to blastic transformation in patients with chronic myelogenous leukemia. We previously showed that Evi-1 and AML1/Evi-1 block the antiproliferative effect of TGF-beta. They represses TGF-beta signaling by direct interaction with Smad3 through their first zinc finger motif. Here, we demonstrate that Evi-1 represses Smad-induced transcriptionby recruiting CtBP as a corepressor. CtBP was originally identified as a protein which interacts with C-terminal region of adenoviral oncoprotein ElA.CtBPis ubiquitously expressed including hematopoietic cells, and has been shown to act as a corepressor of certain transcriptional repressors, such as BKLF, FOG, and TCF. We show that Evi-1 directly associates with CtBP1 through one of the consensus binding motifs, and this association is required for efficient inhibition of TGF-beta signaling. A specific inhibitor for histone deacetylase (HDAC) alleviates Evi-1-mediated repression of TGF-beta signaling, suggesting that HDAc is involved in the transcriptional repression by Evi-1. This identifies a novel function of Evi-1 as a member of corepressor complexes and suggests that aberrant recruitment of corepressors is one of the mechanisms for Evi-1-induced leukemogenesis.

```
REGISTRY NUMBERS: 115640-43-2:EVI-1
DESCRIPTORS:
  MAJOR CONCEPTS: Biochemistry and Molecular Biophysics; Blood and
    Lymphatics (Transport and Circulation); Tumor Biology
  BIOSYSTEMATIC NAMES: Hominidae--Primates, Mammalia, Vertebrata, Chordata,
   Animalia
  ORGANISMS: human (Hominidae)
  ORGANISMS: PARTS ETC: chromosome 3--q26
  BIOSYSTEMATIC CLASSIFICATION (SUPER TAXA): Animals; Chordates; Humans;
   Mammals; Primates; Vertebrates
  DISEASES: acute myeloid leukemia--blood and lymphatic disease, neoplastic
    disease
                             AML1/Evi-1; CTBP --corepressor; Evi-1
  CHEMICALS & BIOCHEMICALS:
    zinc finger nuclear protein; transforming growth factor-beta--EVI-1
   mediated signaling repression
  MISCELLANEOUS TERMS: Meeting Abstract
ALTERNATE INDEXING: Leukemia, Myeloid (MeSH)
CONCEPT CODES:
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24010
          Neoplasms and Neoplastic Agents-Blood and Reticuloendothelial
             Neoplasms
          General Biology-Symposia, Transactions and Proceedings of
  00520
             Conferences, Congresses, Review Annuals
          Biochemical Studies-General
  10060
          Biochemical Studies-Proteins, Peptides and Amino Acids
  10064
          Blood, Blood-Forming Organs and Body Fluids-Blood and Lymph
  15002
             Studies
          Blood, Blood-Forming Organs and Body Fluids-Blood Cell Studies
  15004
          Blood, Blood-Forming Organs and Body Fluids-Blood, Lymphatic and
  15006
             Reticuloendothelial Pathologies
          Neoplasms and Neoplastic Agents-Pathology; Clinical Aspects;
  24004
             Systemic Effects
BIOSYSTEMATIC CODES:
  86215
          Hominidae
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30/5/2 (Item 2 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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ABSTRACT: Evi-1 is a zinc finger nuclear protein whose inappropriate expression leads to leukemic transformation of hematopoietic cells in mice and humans. This was previously shown to block the antiproliferative effect of transforming growth factor beta (TGF-beta). Evi-1 represses TGF-beta signaling by direct interaction with Smad3 through its first zinc finger motif. Here, it is demonstrated that Evi-1 represses Smad-inducedtranscriptionby recruiting C-terminal binding protein (CtBP) as a corepressor. Evi-1 associates with CtBP1 through one of the consensus binding motifs, and this association is required for efficient inhibition of TGF-beta signaling. A specific inhibitor for histone deacetylase (HDAc) alleviates Evi-1-mediated repression of TGF-beta signaling, suggesting that HDAc is involved in the transcriptional repression by Evi-1. This identifies a novel function of Evi-1 as a member of corepressor complexes and suggests that aberrant recruitment of corepressors is one of the mechanisms for Evi-1-induced leukemogenesis.

DESCRIPTORS:

MAJOR CONCEPTS: Biochemistry and Molecular Biophysics; Blood and
Lymphatics (Transport and Circulation); Tumor Biology
BIOSYSTEMATIC NAMES: Hominidae--Primates, Mammalia, Vertebrata, Chordata,
Animalia; Muridae--Rodentia, Mammalia, Vertebrata, Chordata, Animalia
ORGANISMS: human (Hominidae); mouse (Muridae)--animal model
ORGANISMS: PARTS ETC: hematopoietic cells--blood and lymphatics
BIOSYSTEMATIC CLASSIFICATION (SUPER TAXA): Animals; Chordates; Humans;
Mammals; Nonhuman Mammals; Nonhuman Vertebrates; Primates; Rodents;
Vertebrates
DISEASES: myelodysplastic syndrome--blood and lymphatic disease,

REGISTRY NUMBERS: 115640-43-2:EVI-1; 9076-57-7: HISTONE DEACETYLASE

```
neoplastic disease
  CHEMICALS & BIOCHEMICALS: C-terminal binding protein 1 {CtBP1}--
    corepressor; Evi-1 --zinc finger nuclear protein; histone
    deacetylase; transforming growth factor-beta--signaling repression
  MISCELLANEOUS TERMS:
                         leukemogenesis
ALTERNATE INDEXING: Myelodysplastic Syndromes (MeSH)
CONCEPT CODES:
         Biochemical Studies-General
  10060
         Cytology and Cytochemistry-Animal
  02506
         Cytology and Cytochemistry-Human
  02508
         Biochemical Studies-Proteins, Peptides and Amino Acids
  10064
         Blood, Blood-Forming Organs and Body Fluids-Blood and Lymph
  15002
  15004
         Blood, Blood-Forming Organs and Body Fluids-Blood Cell Studies
  15006
         Blood, Blood-Forming Organs and Body Fluids-Blood, Lymphatic and
             Reticuloendothelial Pathologies
         Neoplasms and Neoplastic Agents-Pathology; Clinical Aspects;
  24004
             Systemic Effects
         Neoplasms and Neoplastic Agents-Blood and Reticuloendothelial
  24010
             Neoplasms
BIOSYSTEMATIC CODES:
  86215
        Hominidae
        Muridae
  86375
            (Item 3 from file: 5)
 30/5/3
              5:Biosis Previews(R)
DIALOG(R)File
(c) 2003 BIOSIS. All rts. reserv.
           BIOSIS NO.: 200000002469
12248967
Basic Kruppel-like factor functions within a network of interacting
haematopoietictranscription factors.
AUTHOR: Turner Jeremy; Crossley Merlin(a)
AUTHOR ADDRESS: (a) Department of Biochemistry, G08, University of Sydney,
  Sydney, NSW, 2006**Australia
JOURNAL: International Journal of Biochemistry & Cell Biology 31 (10):p
1169-1174 Oct., 1999
ISSN: 1357-2725
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English
ABSTRACT: Basic Kruppel-like Factor (BKLF) is a recently recognized member
  of a small group oftranscription factors that bind CACCC motifs in
  DNA, by means of three highly conserved C-terminal Kruppel-like
  (typically Cys-X2-4-Cys-X12-His-X3-4-His) zinc fingers. Together with
  Erythroid Kruppel-like Factor (EKLF), it is one of the most abundant
  CACCC-binding proteins in erythroid cells. In contrast to EKLF, BKLF can
  act to represstranscription and thus may serve to moderate EKLF
  activity in vivo. Interestingly, it has also been shown that BKLF
  expression in erythroid cells is dependent on EKLF. Analysis of proteins
  interacting with BKLF indicates that it repressestranscriptionby
  recruiting the general co-repressor proteinCtBP , a cofactor that also
  associates with other haematopoietic transcriptional repressors such as
  Evi-1 and ZEB/AREB6. The observation that mice deficient in BKLF exhibit
  a myeloproliferative disorder suggests that BKLF regulates important
  processes involved in haema topoietic differentiation.
```

MAJOR CONCEPTS: Molecular Genetics (Biochemistry and Molecular Biophysics); Blood and Lymphatics (Transport and Circulation) BIOSYSTEMATIC NAMES: Hominidae--Primates, Mammalia, Vertebrata, Chordata, Animalia; Muridae--Rodentia, Mammalia, Vertebrata, Chordata, Animalia

1/14/03 9:22 AM

REGISTRY NUMBERS: 115640-43-2:EVI-1

DESCRIPTORS:

```
ORGANISMS: human (Hominidae); mouse (Muridae)
  ORGANISMS: PARTS ETC: erythroid cell--blood and lymphatics
  BIOSYSTEMATIC CLASSIFICATION (SUPER TAXA): Animals; Chordates; Humans;
    Mammals; Nonhuman Mammals; Nonhuman Vertebrates; Primates; Rodents;
    Vertebrates
  DISEASES: myeloproliferative disorder--blood and lymphatic disease
  CHEMICALS & BIOCHEMICALS: CtBP; DNA-- transcription; Evi-1;
    ZEB/AREB6; basic Kruppel-like factor--transcriptionfactor;
    erythroid Kruppel-like factor -- transcription factor
CONCEPT CODES:
  10060
          Biochemical Studies-General
  02506
          Cytology and Cytochemistry-Animal
  10300
          Replication, Transcription, Translation
          Blood, Blood-Forming Organs and Body Fluids-Lymphatic Tissue and
  15008
             Reticuloendothelial System
          Blood, Blood-Forming Organs and Body Fluids-Blood Cell Studies
  15004
          Genetics and Cytogenetics-Animal
  03506
BIOSYSTEMATIC CODES:
  86215
        Hominidae
  86375
        Muridae
            (Item 4 from file: 5)
 30/5/4
DIALOG(R) File 5:Biosis Previews(R)
(c) 2003 BIOSIS. All rts. reserv.
           BIOSIS NO.: 199800443288
Cloning and characterization of mCtBP2, a co-repressor that associates with
basic Kruppel-like factor and other mammalian transcriptional regulators.
AUTHOR: Turner Jeremy; Crossley Merlin(a)
AUTHOR ADDRESS: (a) Dep. Biochem., G08, Univ. Sydney, Sydney, NSW 2006**
  Australia
JOURNAL: EMBO (European Molecular Biology Organization) Journal 17 (17):p
5129-5140 Sept. 1, 1998
ISSN: 0261-4189
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English
ABSTRACT: Basic Kruppel-like factor (BKLF) is a zinc finger protein that recognizes CACCC elements in DNA. It is expressed highly in erythroid
  tissues, the brain and other selected cell types. We have studied the
  activity of BKLF and found that it is capable of repressing
transcription , and have mapped its repression domain to the N-terminus.
  We carried out a two-hybrid screen against BKLF and isolated a novel
  clone encoding murine C-terminal-binding protein 2 (mCtBP2). mCtBP2 is
  related to humanCtBP , a cellular protein which binds to a
  Pro-X-Asp-Leu-Ser motif in the C-terminus of the adenoviral oncoprotein,
  Ela. We show that mCtBP2 recognizes a related motif in the minimal
  repression domain of BKLF, and the integrity of this motif is required
  for repression activity. Moreover, when tethered to a promoter by a
  heterologous DNA-binding domain, mCtBP2 functions as a potent repressor.
  Finally, we demonstrate that mCtBP2 also interacts with the mammalian
transcriptionfactors Evi-1, AREB6, ZEB and FOG. These results
  establish a new member of the CtBP family, mCtBP2, as a mammalian
  co-repressor targeting diverse transcriptional regulators.
REGISTRY NUMBERS: 115640-43-2:EVI-1
DESCRIPTORS:
  MAJOR CONCEPTS: Biochemistry and Molecular Biophysics; Methods and
    Techniques
  BIOSYSTEMATIC NAMES: Diptera--Insecta, Arthropoda, Invertebrata, Animalia
    ; Mammalia--Vertebrata, Chordata, Animalia; Muridae--Rodentia, Mammalia
      Vertebrata, Chordata, Animalia
  ORGANISMS: mammal (Mammalia); NIH 3T3 (Muridae); SL2 (Diptera)
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BIOSYSTEMATIC CLASSIFICATION (SUPER TAXA): Animals; Arthropods; Chordates
    ; Insects; Invertebrates; Mammals; Nonhuman Mammals; Nonhuman
   Vertebrates; Rodents; Vertebrates
                            basic Kruppel-like factor; mCtBP2 {murine
  CHEMICALS & BIOCHEMICALS:
   C-terminal-binding protein 2}--characterization, cloning;
    transcriptional regulators; AREB6--transcriptionfactor; DNA;
  Evi-1 -- transcription factor; FOG-- transcription factor; ZEB--
  transcriptionfactor
  METHODS & EQUIPMENT: cloning--Recombinant DNA Technology, cloning method;
    gel mobility shift assay--Analysis/Characterization Techniques--CB,
    analytical method; gel retardation assay--Analysis/Characterization
   Techniques -- CB, analytical method; transactivation assay --
   Analysis/Characterization Techniques--CB, analytical method;
    transrepression assay--Analysis/Characterization Techniques--CB,
    analytical method; two-hybrid screen--Qualitative/Quantitative
   Techniques, screening method
  MISCELLANEOUS TERMS: amino acid sequence
CONCEPT CODES:
         Biochemical Studies-General
  10060
  03506
         Genetics and Cytogenetics-Animal
         Biochemical Methods-General
  10050
BIOSYSTEMATIC CODES:
  75314
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         Mammalia-Unspecified
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  86375
         Muridae
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